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SEWAGE AND WATER WORKS CONSTRUCTION, 1967

Federal Water Pollution Control Administration
Washington, D. C.

1967

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1967

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SEWAGE AND WATER WORKS CONSTRUCTION 1967

U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration
Washington, D.C. 20242

Related Publications

Sewage Treatment Works Contract Awards, 1952–1957
Public Health Service Publication No. 633

Sewage and Water Works Construction, 1957
Public Health Service Publication No. 608

Sewage and Water Works Construction, 1958
Public Health Service Publication No. 673

Sewage and Water Works Construction, 1959 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1960 edition
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Public Health Service Publication No. 758

Sewage and Water Works Construction, 1964 edition
Public Health Service Publication No. 758

Sewage and Water Works Construction, 1967 edition
Federal Water Pollution Control Administration
Publication No. WP–15

PREFACE

This annual report of "Sewage and Water Works Construction 1967" is published as one part of the basic data program required and authorized in Public Law 660 (as amended by the Federal Water Pollution Control Act Amendments of 1961—(PL 87–88), and by the Water Quality Act of 1965—(PL 89–234).

The data published herein provide a continuing and ready source of information and reference as to how successfully the national needs in municipal water supply and pollution control are being met through construction of the necessary physical facilities.

This publication also establishes important year-to-year cost trends in the national economic picture in the three types of public works construction involved. Such data are valuable not only to Federal, State and local government authorities and officials responsible for providing water supplies and for controlling pollution, but are also valuable to the building and contracting trades and to the engineering profession.

This report was prepared by Kenneth H. Jenkins, Chief Statistician, Elsie M. Gibson, Statistical Assistant, Florence G. Simmons, Statistical Assistant, under the direction of James H. McDermott, Director, Division of Pollution Surveillance, Federal Water Pollution Control Administration.

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SECTION 1—GENERAL PRESENTATION OF SEWAGE AND WATERWORKS CONTRACT AWARDS

A. CONTRACT AWARDS—1967

Contracts awarded in the sewage and waterworks field in calendar year 1967 amounted to almost $2.1 billion, broken down as shown below in millions.

Sewage treatment	597.3
Collecting sewers	447.5
Waterworks	1045.3
Total	2,090.1

Contracts for waterworks were 28 percent above 1966 and the highest on record. Sewage treatment contracts were 8 percent over the previous year and those contracts for collecting sewers were up 12 percent.

The total value of all three categories is about 18 percent above 1966 and is the highest figure on record. On a constant dollar basis (1957–59), the increase from 1966 was 13 percent.

Each of the above totals is based upon an identified and an apportioned figure. The identified contracts are those for which the descriptive information available clearly states a single type of construction. Those contracts that cover more than a single type are called "combination" contracts. These combination contracts are then apportioned to the sewage treatment works, collecting sewers, and waterworks categories on the basis of known national experience in each of these.

B. METHOD OF DATA COLLECTION

The contract award data presented in this publication for the year 1967 result from the careful examination of over 100,000 contract notifications in the sewage and waterworks construction and related fields. All notifications of similar contracts awarded in the same geographical area are checked to reduce the chance of duplication. Certain contracts, primarily those covering sewage treatment plants, are checked and verified by the various State water pollution control agencies.

The data on which this report is based were obtained from:

1. F. W. Dodge Corporation, daily reports on construction in the sewage and waterworks fields in the 38 Eastern States and Southern California.
2. Various construction news periodicals, such as, *Construction News Bulletin, Pacific Architect and Builder, Rocky Mountain Construction, Southwest Builder and Contractor, Portland* and *Seattle Daily Journals of Commerce, Daily Pacific Builder, Denver Daily Journal* and *Construction News Daily.*

Practically all of the information for the 38 Eastern States is obtained from daily reports of the F. W. Dodge Corp.

The data presented are composed of contracts awarded by municipalities, special districts, other governmental bodies, and various institutions, resorts, recreation centers, etc. A few contracts are included for industries where the cost of such facilities can be readily identified, and where it is possible to ascertain that the facilities are primarily for the disposal of sanitary wastes or for domestic waterworks facilities.

TABLE 1.—*Annual contract awards—sewage treatment works, collecting sewers, and waterworks—1962–67*

[Millions of dollars]

Year	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	1957–59	Actual	1957–59	Actual	1957–59	Actual	1957–59
1952	137	178	225	296	227	303	589	777
1953	187	231	286	353	283	358	756	942
1954	229	276	244	294	293	353	766	923
1955	201	232	301	345	394	453	896	1,030
1956	354	385	305	331	441	485	1,100	1,201
1957	351	362	247	254	457	481	1,055	1,097
1958	389	385	310	310	419	419	1,118	1,114
1959	349	336	336	320	504	480	1,189	1,136
1960	359	339	359	339	645	597	1,363	1,275
1961	449	419	380	352	573	516	1,402	1,287
1962	545	505	320	291	507	441	1,373	1,237
1963	679	612	405	358	590	500	1,674	1,470
1964	514	459	396	344	654	532	1,564	1,335
1965	522	458	356	304	721	563	1,599	1,325
1966	553	469	399	330	819	611	1,771	1,410
1967	597	497	448	360	1,045	742	2,090	1,593

NOTES:

1. Constant dollars on a 1957–59 base were computed as follows: Sewers from PHS Sewer Construction Cost Index (PHS Publication 1132); sewage treatment a composite 45 percent sewers (Publication 1132) and 55 percent PHS Sewage Treatment Plant Construction Cost Index (PHS Publication 1069); water from *Engineering News-Record* construction cost index changed to a 1957–59 base.

2. The Public Health Service sewage treatment data prior to 1957 are composed of identified contracts only. Beginning with 1957, the figures include an amount apportioned to sewage treatment works from the "combination" contracts.

3. Data on collecting sewers prior to 1957 are obtained by subtracting Public Health Service sewage treatment data from the U.S. Department of Commerce sewer data which includes sanitary and storm sewerage systems as well as sewage treatment works. Beginning with 1957, the data for collecting sewers were assembled by the Public Health Service and do not include storm sewers.

4. The waterworks data prior to 1957 are based on records maintained by the U.S. Department of Commerce. Beginning with 1957, data were obtained by the Public Health Service.

TABLE 2.—*Monthly contract awards—sewage treatment works, collecting sewers, and waterworks—1967*

[Millions of dollars]

Month	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative
January	29.7	29.7	25.7	25.8	84.3	84.4	139.8	140.0
February	38.6	68.3	19.4	45.3	105.6	190.0	163.7	303.7
March	61.0	130.3	37.2	82.5	58.9	248.9	158.0	461.8
April	50.4	180.7	31.1	113.6	106.1	355.1	187.7	649.5
May	48.4	229.2	41.9	155.6	75.3	430.4	165.8	815.3
June	46.3	275.6	50.3	206.0	76.4	506.9	173.1	988.5
July	83.0	358.7	53.6	259.6	81.9	588.9	218.6	1,207.2
August	51.4	410.2	38.1	297.8	71.3	660.2	160.9	1,368.2
September	48.9	459.1	42.9	340.7	145.8	806.0	237.6	1,605.9
October	43.8	502.9	37.4	378.1	76.5	882.6	157.8	1,763.7
November	38.5	541.5	33.9	412.1	94.6	977.2	167.1	1,930.8
December	55.8	597.3	35.4	447.5	68.1	1,045.3	159.3	2,090.1

NOTES: Differences in totals may be due to rounding.

TABLE 3.—*1967 contract awards by states*

State	Total		Sewage treatment		Sewers		Water		Combinations	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	152	33,183,281	25	12,576,684	31	4,125,080	84	15,677,940	12	803,577
Alaska	12	3,209,650	2	78,456	3	1,016,918	6	1,720,364	1	393,912
Arizona	103	15,794,696	13	5,320,318	32	2,431,412	58	8,042,966		
Arkansas	189	24,705,987	33	10,698,383	14	745,901	131	10,830,492	11	2,431,211
California	944	393,245,352	90	42,975,398	372	34,319,205	467	314,065,999	15	1,884,750
Colorado	118	16,380,503	25	3,022,636	21	1,768,553	62	10,172,452	10	1,416,862
Connecticut	154	35,508,337	32	17,681,374	96	14,974,595	20	2,401,296	6	451,072
Delaware	9	343,397	1	38,941	2	67,298	4	196,865	2	40,293
District of Columbia	28	12,181,282	4	10,734,074	12	477,033	8	743,446	4	226,729
Florida	324	51,768,793	51	9,423,512	123	21,043,039	123	17,572,406	27	3,729,845
Georgia	218	33,271,703	40	13,221,669	36	3,853,034	122	13,687,620	20	2,559,379
Hawaii	6	4,376,383	6	4,376,383						
Idaho	34	5,673,278	12	1,354,623	5	1,044,990	12	3,006,580	5	267,085
Illinois	488	91,715,384	103	43,300,265	130	26,207,565	219	18,552,145	36	3,655,409
Indiana	243	57,140,388	44	24,542,819	83	7,371,894	108	24,532,380	8	693,295
Iowa	304	20,868,689	94	8,188,116	91	4,863,334	110	7,324,990	9	492,249
Kansas	252	19,938,509	34	5,220,706	106	4,398,624	108	10,002,934	4	316,245
Kentucky	210	35,109,968	23	4,019,788	51	4,226,918	128	25,560,499	8	1,302,763
Louisiana	246	46,441,170	22	7,575,891	32	5,900,420	161	29,428,478	21	3,536,381
Maine	31	5,641,680	9	1,542,249	11	1,109,112	5	2,990,319		
Maryland	623	60,107,735	40	20,268,676	185	7,414,454	166	18,077,025	282	14,347,580
Massachusetts	324	45,620,323	11	6,655,498	112	14,675,515	176	21,057,794	25	3,231,516
Michigan	486	57,339,852	39	7,581,657	199	25,855,417	204	20,808,326	44	3,094,452
Minnesota	289	39,645,640	40	8,610,695	58	6,260,120	110	15,108,860	81	9,665,965
Mississippi	316	29,465,732	21	2,726,038	14	1,132,011	266	22,062,447	15	3,545,236
Missouri	311	39,146,008	32	15,313,104	77	4,712,360	194	18,299,175	8	821,369
Montana	43	2,737,284	15	585,155	11	571,752	16	1,475,574	1	104,803
Nebraska	177	10,538,804	40	4,655,270	67	1,871,015	60	2,185,780	10	1,846,739
Nevada	25	10,643,701	8	3,380,995	4	93,811	11	6,970,840	2	198,055
New Hampshire	41	5,897,750	5	1,970,024	10	811,189	25	2,632,308	1	484,229
New Jersey	321	77,220,250	34	29,923,246	136	31,087,716	141	15,166,527	10	1,042,761
New Mexico	52	12,338,844	9	4,016,403	4	372,286	33	5,590,577	6	2,359,378
New York	752	122,829,956	79	33,323,522	199	27,411,030	447	57,962,787	27	4,131,717
North Carolina	246	52,776,560	63	18,725,347	46	3,991,934	101	20,316,217	36	9,743,062
North Dakota	55	3,548,489	16	770,901	10	1,101,013	20	1,118,581	9	557,994
Ohio	703	110,328,312	65	26,227,418	234	26,125,260	362	54,564,909	42	3,410,725
Oklahoma	221	25,066,485	35	6,614,872	15	1,650,355	155	13,500,653	16	3,300,605
Oregon	157	18,508,652	21	3,187,853	65	3,556,004	64	9,404,188	7	2,360,607
Pennsylvania	679	133,424,027	88	42,811,864	253	39,974,719	315	43,185,481	23	7,451,963
Puerto Rico	23	6,296,806	7	3,827,193	7	763,945	9	1,705,668		
Rhode Island	37	12,068,116	2	931,427	4	961,055	31	10,175,664		
South Carolina	84	15,434,110	20	6,695,885	14	2,092,766	47	5,271,869	3	1,373,590
South Dakota	75	5,051,016	26	2,936,579	12	688,919	27	990,577	10	434,941
Tennessee	209	44,575,144	26	5,116,715	72	20,615,683	103	17,406,902	8	1,435,844
Texas	910	94,656,251	65	15,026,158	166	12,481,558	568	55,236,431	111	11,912,104
Utah	16	3,456,026	8	1,879,744	1	148,026	7	1,428,256		
Vermont	29	4,717,928	8	1,843,583	9	1,946,359	11	748,168	1	179,818
Virginia	248	37,862,439	63	20,920,201	90	6,439,224	77	7,818,030	18	2,684,984
Virgin Islands										
Washington	379	45,873,918	50	13,817,506	109	11,347,383	207	16,618,667	13	4,090,362
West Virginia	69	7,812,193	8	1,098,365	7	270,970	51	5,262,085	3	1,180,773
Wisconsin	533	47,708,140	47	13,442,192	215	16,286,146	166	10,331,559	105	7,648,243
Wyoming	8	913,993	1	45,563	1	8,029	4	443,350	2	416,981
Total	12,506	2,090,107,844	1,655	550,801,934	3,623	412,663,011	6,110	999,385,446	1,118	127,257,453

TABLE 4.—*1967 contract awards (distributed) by states*

State	Total	Sewage Treatment	Sewers	Water
Alabama	33,183,281	12,870,233	4,345,070	15,967,975
Alaska	3,209,650	222,353	1,124,756	1,862,538
Arizona	15,794,696	5,320,318	2,431,412	8,042,966
Arkansas	24,705,987	11,586,514	1,411,479	11,707,988
California	393,245,352	43,663,904	34,835,181	314,746,261
Colorado	16,380,503	3,540,221	2,156,438	10,683,840
Connecticut	35,508,337	17,846,152	15,098,082	2,564,101
Delaware	343,397	53,660	78,328	211,407
District of Columbia	12,181,282	10,816,899	539,103	825,279
Florida	51,768,793	10,786,039	22,064,127	18,918,618
Georgia	33,271,703	14,156,620	4,553,700	14,561,376
Hawaii	4,376,383	4,376,383		
Idaho	5,673,278	1,452,190	1,118,108	3,102,978
Illinois	91,715,384	44,635,600	27,208,284	19,871,491
Indiana	57,140,388	24,796,082	7,561,693	24,782,610
Iowa	20,868,689	8,367,936	4,998,094	7,502,657
Kansas	19,938,509	5,336,231	4,485,200	10,117,076
Kentucky	35,109,968	4,495,692	4,583,567	26,030,705
Louisiana	46,441,170	8,867,745	6,868,553	30,704,863
Maine	5,641,680	1,542,249	1,109,112	2,990,319
Maryland	60,107,735	25,509,904	11,342,304	23,255,497
Massachusetts	45,620,323	7,835,983	15,560,187	22,224,145
Michigan	57,339,852	8,712,072	26,702,566	21,925,206
Minnesota	39,645,640	12,141,710	8,906,313	18,597,596
Mississippi	29,465,732	4,021,126	2,102,568	23,342,029
Missouri	39,146,008	15,613,153	4,937,221	18,595,631
Montana	2,737,284	623,439	600,443	1,513,400
Nebraska	10,538,804	5,309,891	2,376,585	2,852,323
Nevada	10,643,701	3,453,345	148,031	7,042,323
New Hampshire	5,897,750	2,146,914	943,753	2,807,080
New Jersey	77,220,250	30,304,170	31,373,186	15,542,890
New Mexico	12,338,644	4,878,293	1,018,198	6,442,147
New York	122,829,056	34,832,854	28,542,145	59,454,047
North Carolina	52,776,560	22,284,526	6,659,233	23,832,780
North Dakota	3,548,489	974,738	1,253,771	1,319,977
Ohio	110,328,312	27,473,369	27,058,993	55,795,941
Oklahoma	25,066,485	7,820,596	2,553,941	14,691,940
Oregon	18,508,652	4,050,192	4,202,253	10,256,201
Pennsylvania	133,424,027	45,534,095	42,014,798	45,875,118
Puerto Rico	6,296,806	3,827,193	763,945	1,705,668
Rhode Island	12,068,146	931,427	961,055	10,175,664
South Carolina	15,434,110	7,197,662	2,468,805	5,767,638
South Dakota	5,051,016	3,095,464	807,990	1,147,560
Tennessee	44,575,144	5,641,234	21,008,765	17,925,141
Texas	94,656,251	19,377,697	15,742,663	59,535,866
Utah	3,456,026	1,879,744	148,026	1,428,256
Vermont	4,717,928	1,909,271	1,995,586	813,069
Virginia	37,862,439	21,901,036	7,174,275	8,787,121
Virgin Islands				
Washington	45,873,918	15,311,731	12,467,176	18,095,001
West Virginia	7,812,193	1,529,706	594,223	5,688,261
Wisconsin	47,708,140	16,236,125	18,379,959	13,092,039
Wyoming	913,993	197,887	122,253	593,850
Total	2,090,107,844	597,289,590	447,501,520	1,045,316,478

SECTION II—CONTRACT AWARDS—BASIC DATA—1967

This section presents the basic data as compiled; combination projects have not been apportioned. Tables of contract awards by population size groups, contract size groups, drainage basins and States are included.

The population size group tables do not refer to the population served. They represent the size of the community in which each contract was awarded. The population size groups of some contracts were unknown; these contracts consist primarily of schools, hospitals, military bases, and parks. The cumulative percentages shown in these tables are based on the known population groups.

A. SEWAGE TREATMENT WORKS CONSTRUCTION

The sewage treatment works are presented in two categories, namely, NEW PLANT and OTHER. The "NEW PLANT" classification includes stabilization ponds and appurtenances. The "OTHER" category includes replacements and additions to existing treatment plants, interceptors, and outfalls. This category also includes contracts whose costs cannot be separated between "New Plant" and "Other." Therefore, the "Other" classification may include a few new plants.

In 1967 the level of contracts awarded for construction of sewage treatment works in the United States reached a level of 597.3 million. Of this amount 550.8 million covered contracts identified as to specific location and type of construction. The following tables, 5 through 8, inclusive relate only to contracts individually identified for sewage treatment facilities.

Lists of the locations of contract awards for sewage treatment works are available upon request. Write to Director, Division of Pollution Surveillance, Federal Water Pollution Control Administration, U.S. Department of the Interior, Washington, D.C. 20242.

TABLE 5.—*Contract awards—sewage treatment works construction—1967—by population size groups*

Population size group	Total				New Plant				Other [1]			
	Number	Dollars	Cumulative (percent) [2]		Number	Dollars	Cumulative (percent) [2]		Number	Dollars	Cumulative (percent) [2]	
			Number	Dollars			Number	Dollars			Number	Dollars
Unknown population size	5	532,486			2	265,071			3	267,415		
Under 500	137	8,081,934	8.6	1.6	25	2,383,699	11.3	2.0	112	5,698,235	8.1	1.4
500–1,000	165	13,373,829	18.5	4.0	27	4,725,777	22.5	5.5	138	8,648,052	17.9	3.5
1,000–2,500	279	43,416,123	35.4	11.9	72	15,321,159	52.5	17.0	207	28,094,964	32.5	10.2
2,500–5,000	188	42,507,485	46.8	19.6	25	12,883,446	62.9	26.7	163	29,624,039	44.0	17.3
5,000–10,000	172	63,932,141	57.2	31.2	22	12,960,066	72.1	36.4	150	50,972,075	54.6	29.5
10,000–25,000	187	88,425,756	68.5	47.3	25	29,313,624	82.5	58.4	162	59,112,132	66.1	43.7
25,000–50,000	114	57,064,592	75.3	57.6	13	9,085,985	87.9	65.2	101	47,978,607	73.2	55.2
50,000–100,000	114	70,201,488	82.2	70.4	12	20,315,747	92.9	80.4	102	49,885,741	80.4	67.2
100,000–250,000	97	51,890,503	88.1	79.8	7	9,541,134	95.8	87.5	90	42,349,369	86.8	77.3
250,000 and over	197	111,375,597	100.0	100.0	10	16,622,909	100.0	100.0	187	94,752,688	100.0	100.0
Total	1,655	550,801,934			240	133,418,617			1,415	417,383,317		

[1] Interceptors, outfalls, enlargements and alterations to plants.

[2] Cumulative percentages based on the known population groups.

TABLE 6.—*Contract awards—sewage treatment works construction—1967—by contract size groups*

Contract size group (dollars)	Total		Cumulative (percent)		New Plant		Cumulative (percent)		Other [1]		Cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	71	437,616	4.3	0.1	1	8,475	0.4	0.0	70	429,141	4.9	0.1
10,000 25,000	152	2,690,366	13.5	0.6	5	92,327	2.5	0.1	147	2,598,039	15.3	0.7
25,000 50,000	260	9,676,199	29.2	2.3	19	728,067	10.4	0.6	241	8,948,132	32.4	2.9
50,000 100,000	262	19,439,619	45.0	5.9	29	2,262,518	22.5	2.3	233	17,177,101	48.8	7.0
100,000 250,000	382	61,842,892	68.1	17.1	84	13,137,141	57.5	12.2	298	48,705,751	69.9	18.7
250,000 500,000	245	87,859,984	82.9	33.0	39	14,181,098	73.8	22.8	206	73,678,886	84.5	36.3
500,000 1,000,000	167	115,033,610	93.0	53.9	30	19,951,126	86.3	37.7	137	95,082,484	94.1	59.1
1,000,000 5,000,000	109	204,377,157	99.6	91.0	29	56,745,200	98.3	80.3	80	147,631,957	99.8	94.5
Over 5,000,000	7	49,444,491	100.0	100.0	4	26,312,665	100.0	100.0	3	23,131,826	100.0	100.0
Total	1,655	550,801,934			240	133,418,617			1,415	417,383,317		

[1] Interceptors, outfalls, enlargements, and alterations to plants.

TABLE 7.—*Contract awards—sewage treatment works construction—1967—by drainage basin*

Drainage basin	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	158	81,038,660	31	32,039,363	127	48,999,297
North Atlantic	167	98,961,569	28	30,311,947	139	68,649,622
Southeast	220	59,906,285	35	16,172,775	185	43,733,510
Tennessee River	24	9,377,471	6	4,556,612	18	4,820,859
Ohio River	150	46,047,639	37	14,646,495	113	31,401,144
Lake Erie	37	17,118,319	8	4,406,365	29	12,711,954
Upper Mississippi	254	74,848,148	31	6,671,923	223	68,176,225
Western Great Lakes	64	16,270,468	4	758,044	60	15,512,424
Missouri River	156	19,259,867	9	1,944,420	147	17,315,447
Southwest-Lower Mississippi	131	29,004,419	13	5,469,309	118	23,535,110
Colorado River	23	6,456,298	5	2,082,124	18	4,374,174
Western Gulf	68	18,022,980	9	2,077,143	59	15,945,837
Pacific Northwest	85	18,532,901	7	3,080,269	78	15,452,632
California	75	35,797,291	10	7,365,811	65	28,431,480
Great Basin	28	11,877,587	4	1,367,597	24	10,569,990
Alaska	2	78,456	1	41,950	1	36,506
Hawaii	6	4,376,383			6	4,376,383
Puerto Rico	7	3,827,193	2	426,470	5	3,400,723
Total	1,655	550,801,934	240	133,418,617	1,415	417,383,317

[1] Interceptors, outfalls, enlargements, and alterations to plants.

TABLE 8.—*Contract awards—sewage treatment works construction—1967—by states*

State	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	25	12,576,684	2	3,870,690	23	8,705,994
Alaska	2	78,456	1	41,950	1	36,506
Arizona	13	5,320,318	3	1,758,144	10	3,562,174
Arkansas	33	10,698,383	3	1,991,041	30	8,707,342
California	90	42,975,398	13	8,549,318	77	34,426,080
Colorado	25	3,022,636	4	461,304	21	2,561,332
Connecticut	32	17,681,374	7	7,431,746	25	10,249,628
Delaware	1	38,941	--	----------	1	38,941
District of Columbia	4	10,734,074	--	----------	4	10,734,074
Florida	51	9,423,512	8	1,101,039	43	8,322,473
Georgia	40	13,221,669	9	7,149,406	31	6,072,263
Hawaii	6	4,376,383	--	----------	6	4,376,383
Idaho	12	1,354,623	--	----------	12	1,354,623
Illinois	103	43,300,265	15	4,349,325	88	38,950,940
Indiana	44	24,542,819	7	6,389,050	37	18,153,769
Iowa	94	8,188,116	9	1,310,932	85	6,877,184
Kansas	34	5,220,706	2	187,392	32	5,033,314
Kentucky	23	4,019,788	4	1,224,713	19	2,795,075
Louisiana	22	7,575,891	4	2,963,422	18	4,612,469
Maine	9	1,542,249	2	511,900	7	1,030,349
Maryland	40	20,268,676	5	3,470,020	35	16,798,656
Massachusetts	11	6,655,498	3	2,838,950	8	3,816,548
Michigan	39	7,581,657	2	371,088	37	7,210,569
Minnesota	40	8,610,695	5	649,703	35	7,960,992
Mississippi	21	2,726,038	1	49,982	20	2,676,056
Missouri	32	15,313,104	1	773,633	31	14,539,471
Montana	15	585,155	--	----------	15	585,155
Nebraska	40	4,635,270	6	1,053,033	34	3,582,237
Nevada	8	3,380,995	1	184,090	7	3,196,905
New Hampshire	5	1,970,024	2	1,127,500	3	842,524
New Jersey	34	29,923,246	7	11,470,456	27	18,452,790
New Mexico	9	4,016,403	--	----------	9	4,016,403
New York	79	33,323,522	10	11,981,887	69	21,341,635
North Carolina	63	18,725,347	18	8,018,933	45	10,706,414
North Dakota	16	770,901	--	----------	16	770,901
Ohio	65	26,227,418	15	6,310,550	50	19,916,868
Oklahoma	35	6,614,872	2	190,130	33	6,424,742
Oregon	21	3,187,853	3	400,398	18	2,787,455
Pennsylvania	88	42,811,864	21	16,577,116	67	26,234,748
Puerto Rico	7	3,827,193	2	426,470	5	3,400,723
Rhode Island	2	931,427	1	26,800	1	904,627
South Carolina	20	6,695,885	--	----------	20	6,695,885
South Dakota	26	2,936,579	1	30,764	25	2,905,815
Tennessee	26	5,116,715	7	1,608,196	19	3,508,519
Texas	65	15,026,158	9	2,077,143	56	12,949,015
Utah	8	1,879,744	--	----------	8	1,879,744
Vermont	8	1,843,583	4	815,529	4	1,028,054
Virginia	63	20,920,201	8	9,504,473	55	11,415,728
Virgin Islands	--	----------	--	----------	--	----------
Washington	50	13,817,506	4	2,679,871	46	11,137,635
West Virginia	8	1,098,365	4	654,621	4	443,744
Wisconsin	47	13,442,192	5	835,909	42	12,606,283
Wyoming	1	45,563	--	----------	1	45,563
Total	1,655	550,801,934	240	133,418,617	1,415	417,383,317

[1] Interceptors, outfalls, enlargements and alterations to plants.

B. COLLECTING SEWER CONSTRUCTION

Collecting sewer construction for 1967 totaled $447.5 million. Tables 9, 10, and 11 analyze the contract award data which was specified as purely collecting sewers (i.e. $412.7 million), and do not reflect any portion of the combination projects. The tabulation of the collecting sewer contract awards by States appears in table 3 of section I.

The collecting sewer classification does *not* include storm sewers.

C. WATERWORKS CONSTRUCTION

The waterworks data are broken down into four categories, namely, SOURCE, TREATMENT, DISTRIBUTION, and MISCELLANEOUS. The "SOURCE" group includes contracts awarded for wells, surface source development, and transmission lines. The "TREATMENT" area includes contracts for plants and auxiliary facilities. The "DISTRIBUTION" category includes contracts for ground storage, elevated tanks, and distribution systems. The "MISCELLANEOUS" classification includes contracts for pumping facilities and for water systems in general. When it is not possible to code a contract that is known to pertain to water into source, treatment, or distribution then it is included in the totals for miscellaneous.

Contract awards for waterworks construction in 1967, including an apportioned amount from the combination contracts, totaled $1045.3 million. The tables following refer only to contracts that pertain exclusively to waterworks (i.e., $999.4 million).

TABLE 9.—*Contract awards—collecting sewer construction—1967—by population size groups*

Population size group	Collecting sewers			
			Cumulative percent [1]	
	Number	Dollars	Number	Dollars
Unknown population size	16	1,665,042		
Under 500	104	8,663,649	2.8	2.1
500–1,000	80	11,476,616	5.1	4.9
1,000–2,500	221	28,923,760	11.2	11.9
2,500–5,000	259	40,320,705	18.4	21.7
5,000–10,000	392	52,615,508	29.2	34.5
10,000–25,000	626	74,199,698	46.6	52.6
25,000–50,000	382	42,544,685	57.2	62.9
50,000–100,000	345	30,981,477	66.7	70.4
100,000–250,00	358	41,979,236	76.7	80.7
250,000 and over	840	79,292,635	100.0	100.0
Total	3,623	412,663,011		

[1] Cumulative percentages are based on known population groups.

TABLE 10.—*Contract awards—collecting sewer construction—1967—by contract size groups*

Contract size group (dollars)	Collecting sewers			
			Cumulative percent	
	Number	Dollars	Number	Dollars
Under 10,000	661	3,627,296	18.2	0.9
10,000–25,000	788	13,257,003	40.0	4.1
25,000–50,000	639	22,857,254	57.6	9.6
50,000–100,000	553	40,078,822	72.9	19.3
100,000–250,000	577	91,600,943	88.8	41.5
250,000–500,000	253	91,852,539	95.8	63.8
500,000–1,000,000	108	73,553,399	98.8	81.6
1,000,000–5,000,000	44	75,835,255	100.0	100.0
Total	3,623	412,663,011		

TABLE 11.—*Contract awards—collecting sewer construction—1967—by drainage basin*

Drainage basin	Collecting sewers		Drainage basin	Collecting sewers	
	Number	Dollars		Number	Dollars
Northeast	538	87,440,992	Colorado River	41	3,393,610
North Atlantic	429	53,305,110	Western Gulf	162	12,231,926
Southeast	267	36,125,248	Pacific Northwest	181	16,075,288
Tennessee River	30	10,633,747	California	350	31,187,857
Ohio River	357	39,880,443	Great Basin	22	2,582,956
Lake Erie	135	13,047,404	Alaska	3	1,016,918
Upper Mississippi	336	40,014,453	Hawaii		
Western Great Lakes	375	40,734,351	Puerto Rico	7	763,945
Missouri River	217	10,605,675			
Southwest-Lower Mississippi	173	13,623,088	Total	3,623	412,663,011

TABLE 12.—*Contract awards—waterworks construction—1967—by population size groups*

Population size group	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	65	4,042,970	16	914,858	1	90,624	39	2,493,537	9	543,951
Under 500	675	41,871,031	171	3,492,775	42	2,333,542	384	28,366,803	78	7,677,911
500-1,000	409	28,048,534	94	2,623,750	29	3,053,196	234	14,929,061	52	7,442,537
1,000-2,500	600	39,308,829	123	5,316,513	64	7,282,383	358	21,406,764	55	5,303,169
2,500-5,000	547	50,152,687	112	9,112,980	43	9,594,642	348	25,989,784	44	5,455,311
5,000-10,000	627	70,501,194	142	24,146,937	42	15,618,452	389	30,465,543	54	8,270,262
10,000-25,000	1,046	123,464,912	227	21,023,313	54	24,133,883	660	58,573,354	105	19,734,362
25,000-50,000	578	95,766,036	133	24,794,764	31	22,484,925	370	44,235,748	44	4,250,599
50,000-100,000	403	103,335,130	100	45,398,790	24	19,125,935	252	30,268,500	27	8,541,905
100,000-250,000	319	70,852,424	56	23,939,907	19	24,388,063	202	16,726,140	42	5,798,314
250,000 and over	847	364,413,721	177	198,347,944	19	27,366,392	607	60,752,612	44	77,946,773
Total	6,116	999,757,468	1,351	359,112,531	368	155,471,997	3,843	334,207,846	554	150,965,094

[1] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 12A.—*Contract awards—waterworks construction—1967—by population size groups—cumulative percentages* [1]

Population size group	Total		Source		Treatment		Distribution		Miscellaneous [2]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size										
Under 500	11.0	4.2	12.7	1.0	11.4	1.5	10.0	8.5	14.1	5.1
500-1,000	17.7	7.0	19.6	1.7	19.3	3.5	16.1	13.0	23.5	10.0
1,000-2,500	27.5	10.9	28.7	3.2	36.7	8.1	25.4	19.4	33.4	13.5
2,500-5,000	36.5	15.9	37.0	5.7	48.4	14.3	34.5	27.1	41.3	17.1
5,000-10,000	46.7	23.8	47.5	12.4	59.8	24.4	44.6	36.3	51.1	22.6
10,000-25,000	63.8	36.1	64.3	18.3	74.5	39.9	61.7	53.8	70.0	35.7
25,000-50,000	73.3	45.7	74.2	25.2	82.9	54.4	71.4	67.0	78.0	38.5
50,000-100,000	79.9	56.1	81.6	37.8	89.4	66.7	77.9	76.1	82.9	44.2
100,000-250,000	85.1	63.1	85.7	44.5	94.6	82.3	83.2	81.1	90.4	48.0
250,000 and over	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Cumulative percentages based on known population groups.
[2] See Table 12.

TABLE 13.—*Contract awards—waterworks construction—1967—by contract size groups*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	1,046	5,775,323	268	1,507,166	15	80,333	720	3,956,989	43	230,835
10,000-25,000	1,362	22,947,224	361	5,958,730	54	965,759	852	14,378,100	95	1,644,635
25,000-50,000	1,131	40,536,382	206	7,298,053	58	2,050,001	754	27,029,647	113	4,158,681
50,000-100,000	1,037	74,454,606	178	12,867,367	52	3,908,378	692	49,571,892	115	8,106,969
100,000-250,000	861	133,784,991	157	24,863,179	67	10,698,220	528	80,853,512	109	17,370,080
250,000-500,000	370	129,773,849	75	26,415,355	48	17,320,286	214	74,367,421	33	11,670,787
500,000-1,000,000	185	126,460,209	63	44,661,759	39	27,247,238	63	41,216,221	20	13,334,991
1,000,000-5,000,000	97	171,891,309	28	48,576,111	31	61,815,444	18	27,569,698	20	33,930,056
Over 5,000,000	21	293,761,553	10	186,693,989	4	31,386,338	1	15,163,166	6	60,518,060
Total	6,110	999,385,446	1,346	358,841,709	368	155,471,997	3,842	334,106,646	554	150,965,094

[1] See Table 12.

TABLE 13A.—*Contract awards—waterworks construction—1967—by contract size groups—cumulative percentages*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	17.1	0.6	19.9	0.4	4.1	0.1	18.7	1.2	7.8	0.2
10,000–25,000	39.4	2.9	46.7	2.1	18.8	0.7	40.9	5.5	24.9	1.2
25,000–50,000	57.9	6.9	62.0	4.1	34.5	2.0	60.5	13.6	45.3	4.0
50,000–100,000	74.9	14.4	75.3	7.7	48.6	4.5	78.6	28.4	66.1	9.4
100,000–250,000	89.0	27.8	86.9	14.6	66.8	11.4	92.3	52.6	85.7	20.9
250,000–500,000	95.0	40.8	92.5	22.0	79.9	22.5	97.9	74.9	91.7	28.6
500,000–1,000,000	98.1	53.4	97.2	34.4	90.5	40.1	99.5	87.2	95.3	37.4
1,000,000–5,000,000	99.7	70.6	99.3	48.0	98.9	79.8	100.0	95.5	98.9	59.9
Over 5,000,000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] See table 12.

TABLE 14.—*Contract awards—waterworks construction—1967—by drainage basin*

Drainage basin	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	795	107,430,663	190	28,356,705	25	18,923,528	510	49,273,291	70	10,877,139
North Atlantic	472	47,866,999	100	17,227,929	33	8,113,643	305	20,014,877	34	2,510,550
Southeast	614	82,709,920	159	19,604,064	58	20,591,505	330	33,170,545	67	9,343,806
Tennessee River	78	15,270,277	6	1,199,853	5	2,931,013	57	7,912,671	10	3,226,740
Ohio River	690	121,720,022	105	12,129,075	59	44,081,688	472	50,052,781	54	15,456,478
Lake Erie	136	16,003,626	21	3,174,659	8	2,929,190	96	7,844,294	11	2,055,483
Upper Mississippi	489	43,186,711	115	7,964,077	43	5,655,434		23,334,223	39	6,232,977
Western Great Lakes	333	38,498,320	80	16,101,050	17	4,905,612	218	15,266,576	18	2,225,082
Missouri River	335	22,585,864	69	5,088,872	25	2,220,390	202	11,523,809	39	3,752,793
Southwest-Lower Mississippi	749	83,136,288	199	20,024,006	58	24,057,894	437	34,195,142	55	4,859,246
Colorado River	102	22,056,686	26	6,231,779	1	194,533	54	8,599,107	21	7,031,267
Western Gulf	544	51,582,388	129	15,499,502	15	9,133,593	354	22,331,926	46	4,617,367
Pacific Northwest	289	29,856,354	38	5,522,840	5	2,791,917	202	17,406,188	44	4,135,409
California	423	310,282,491	97	198,943,906	12	7,622,186	275	30,507,807	39	73,208,592
Great Basin	46	3,772,805	8	909,575	2	596,301	30	1,322,300	6	944,629
Alaska	6	1,720,364	1	341,185			4	891,643	1	487,536
Hawaii										
Puerto Rico	9	1,705,668	3	522,632	2	723,570	4	459,466		
Total	6,110	999,385,446	1,346	358,841,709	368	155,471,997	3,842	334,106,646	554	150,965,094

[1] See table 12

TABLE 15.—*Contract awards—waterworks construction—1967—by states*

State	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	84	15,677,940	18	5,417,561	6	2,002,041	50	6,539,931	10	1,718,407
Alaska	6	1,720,364	1	341,185			4	891,643	1	487,536
Arizona	58	8,042,966	14	946,946			34	4,996,403	10	2,099,617
Arkansas	131	10,836,492	30	1,479,407	21	3,198,520	74	4,859,909	6	1,292,656
California	467	314,065,999	105	200,232,214	14	8,218,487	304	31,554,911	44	74,060,387
Colorado	62	10,172,452	12	2,194,786	4	3,954,501	32	1,883,813	14	2,139,352
Connecticut	20	2,401,296	6	539,822	3	572,400	10	1,199,774	1	89,300
Delaware	4	196,865	2	19,435	1	153,430	1	24,000		
District of Columbia	8	743,446	2	312,054	1	196,422	5	234,970		
Florida	123	17,572,406	36	5,243,575	18	5,460,172	59	4,852,429	10	2,016,230
Georgia	122	13,637,620	27	4,286,864	8	2,930,262	72	5,208,994	15	1,211,500
Hawaii										
Idaho	12	3,006,580	1	11,315	1	137,121	8	1,402,346	2	1,455,798
Illinois	219	18,552,115	51	3,252,071	11	1,632,868	140	10,055,059	17	3,612,157
Indiana	108	24,532,380	16	3,239,801	15	6,635,704	63	9,093,315	14	5,563,560
Iowa	110	7,324,990	22	707,625	21	2,537,510	60	2,918,486	7	1,161,369
Kansas	108	10,002,934	14	1,652,433	6	1,641,456	74	5,196,473	14	1,512,572
Kentucky	128	25,560,499	16	1,785,969	12	3,297,691	86	16,440,880	14	4,035,959
Louisiana	161	29,428,478	51	11,184,771	11	10,763,156	86	6,736,069	13	744,482
Maine	5	2,990,319	1	1,992,675			3	157,644	1	840,900
Maryland	166	18,077,025	33	10,415,855	8	1,483,588	121	5,883,816	4	293,766
Massachusetts	176	21,057,794	44	5,463,681	4	4,771,584	109	8,484,888	19	2,337,691
Michigan	204	20,808,326	49	8,807,469	11	2,350,733	134	8,966,814	10	683,310
Minnesota	110	15,108,860	27	6,269,489	13	1,288,472	64	5,944,355	6	1,606,544
Mississippi	266	22,062,447	96	2,690,005	12	4,819,414	136	12,414,354	22	2,138,674
Missouri	194	18,299,175	50	4,664,920	16	1,240,375	108	10,595,895	20	1,797,985
Montana	16	1,475,574			1	116,750	13	1,292,555	2	66,269
Nebraska	60	2,185,780	17	357,701			35	1,073,522	8	754,557
Nevada	11	6,970,840	5	3,169,827			4	2,022,627	2	1,778,386
New Hampshire	25	2,632,308	16	832,392			7	1,110,480	2	689,436
New Jersey	141	15,166,527	42	1,903,519	12	7,102,987	76	5,522,199	11	637,822
New Mexico	33	5,590,577	14	2,086,576			14	1,589,004	5	1,954,997
New York	447	57,962,787	84	11,645,878	10	5,694,793	313	34,067,103	40	6,555,013
North Carolina	101	20,316,217	23	2,909,465	12	7,702,409	54	7,344,521	12	2,359,822
North Dakota	20	1,118,581	5	35,257	1	76,308	12	919,450	2	87,566
Ohio	362	54,564,909	67	7,187,031	26	20,835,317	250	20,481,518	19	6,061,043
Oklahoma	155	13,500,653	26	3,453,187	8	846,948	111	8,194,544	10	1,005,974
Oregon	64	9,404,188	11	1,934,395	2	1,258,100	39	4,535,651	12	1,676,042
Pennsylvania	315	43,185,481	56	6,690,865	22	20,240 222	209	14,137,948	28	2,116,446
Puerto Rico	9	1,705,668	3	522,632	2	723,570	4	459,466		
Rhode Island	31	10,175,664	7	7,346,621	2	1,556,342	20	978,363	2	294,338
South Carolina	47	5,271,869	14	1,700,481	6	1,598,239	22	1,706,414	5	266,735
South Dakota	27	990,577	4	71,022	1	37,500	19	688,945	3	193,110
Tennessee	103	17,406,902	4	313,224	8	2,433,060	83	11,468,835	8	3,191,783
Texas	568	55,236,431	132	15,457,836	19	9,838,598	369	25,155,224	48	4,784,773
Utah	7	1,428,256	2	1,010,632			4	372,956	1	44,668
Vermont	11	748,168	3	294,710	1	38,206	5	242,546	2	172,706
Virginia	77	7,818,030	15	813,027	11	3,245,561	44	3,162,346	7	597,096
Virgin Islands										
Washington	207	16,618,667	28	3,577,130	2	1,396,696	150	10,692,716	29	952,125
West Virginia	51	5,262,085	5	314,615	1	349,667	38	3,630,007	7	967,796
Wisconsin	166	10,331,559	40	1,956,399	4	1,094,877	108	6,601,749	14	678,534
Wyoming	4	443,350	1	145,359			2	118,786	1	179,205
Total	6,110	999,385,446	1,346	358,841,709	368	155,471,997	3,842	334,106,646	554	150,965,094

[1] See table 12.

D. COMBINATION CONSTRUCTION

Combination contracts are made up of projects that cover more than one of the three major categories: (1) Sewage treatment; (2) collecting sewers; and (3) waterworks. The combination contract awards by States appear in table 3 of section 1.

TABLE 16.—*Contract awards—combination construction—1967—by population size groups*

Population size group	Combinations [1]			
			Cumulative percent [2]	
	Number	Dollars	Number	Dollars
Unknown population size	5	535,370		
Under 500	55	7,372,394	4.9	5.8
500–1,000	69	8,701,442	11.1	12.6
1,000–2,500	112	17,011,004	21.2	26.1
2,500–5,000	77	9,084,110	28.1	33.2
5,000–10,000	95	13,098,727	36.6	43.6
10,000–25,000	127	18,532,105	48.0	58.2
25,000–50,000	96	12,522,579	56.6	68.1
50,000–100,000	46	6,572,317	60.8	73.3
100,000–250,000	61	5,890,127	66.3	77.9
250,000 and over	375	27,937,278	100.0	100.0
Total	1,118	127,257,453		

[1] This includes contracts whose descriptive information covers more than one single category of construction (e.g., sewage treatment, sewers or waterworks).

[2] Cumulative percentages are based on known population groups.

TABLE 17.—*Contract awards—combination construction—1967—by contract size groups*

Contract size group (dollars)	Combinations [1]			
			Cumulative percent	
	Number	Dollars	Number	Dollars
Under 10,000	134	846,303	12.0	0.7
10,000–25,000	234	3,935,717	32.9	3.8
25,000–50,000	215	7,641,708	52.1	9.8
50,000–100,000	209	14,656,442	70.8	21.3
100,000–250,000	202	31,625,511	88.9	46.1
250,000–500,000	77	26,646,094	95.8	67.1
500,000–1,000,000	36	25,401,219	99.0	87.0
1,000,000–5,000,000	11	16,504,459	100.0	100.0
Total	1,118	127,257,453		

[1] See table 16.

TABLE 18.—*Contract awards—combination construction—1967—by drainage basin*

Drainage basin	Combinations [1]		Drainage basin	Combinations [1]	
	Number	Dollars		Number	Dollars
Northeast	65	9,221,730	Colorado River	6	988,320
North Atlantic	319	22,258,990	Western Gulf	116	13,887,959
Southeast	100	19,974,584	Pacific Northwest	25	6,718,054
Tennessee River	8	1,778,160	California	14	1,842,451
Ohio River	46	6,968,863	Great Basin	1	42,299
Lake Erie	27	1,985,729	Alaska	1	393,912
Upper Mississippi	172	16,331,416	Hawaii		
Western Great Lakes	108	8,428,972	Puerto Rico		
Missouri River	41	4,257,542			
Southwest-Lower Mississippi	69	12,178,472	Total	1,118	127,257,453

[1] See table 16.

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